**GOVERNMENT OF ANDHRA PRADESH**

**A B S T R A C T**

Polavaram Irrigation Project- "Investigation, Survey, Preparation of Designs & Drawings and L.P. Schedules etc., (Balance) and (1) Construction of Earth Dam Gaps I & III, Earth Cum Rock Fill Dam for Gap - II, Spill channel, Approach Channel and Pilot channel (2) Construction of Spillway with crest level +25.72 m and its ancillary works and (3) Excavation of foundations of 960 MW Hydro Electric Power House, Approach channel, Intake structure, Tail race pool, Tail race channel etc., of Polavaram Irrigation Project on EPC Turn Key including O & M – Updated estimate with SSR 2015-16" - Revised administrative sanction-Accorded – Orders – Issued.

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**WATER RESOURCES (PROJECTS.I A2) DEPARTMENT**

**G.O.Ms.No.96** **Dated: 08-09-2016**

**Read the following:**

1. From the ENC,PIP,Lr.No. ENC/PIP/DCE1/OT6/AEE2/F.20/AEE2/F.20/Vol.G, dated. 30-04-2016, 09-08-2016.
2. G.O.Ms.No. 13, Water Resources (Proj.I.A2) Department, dated.25-01-2016.
3. G.O.Ms.No.83, Water Resources (Proj.I.A2) Department, dated 06-08-2016.

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**ORDER:**

In the reference 1st read above, the Engineer-in-Chief, PIP has submitted that Polavaram Irrigation Project is a Major Irrigation Project across River Godavari conceived as multipurpose project conferring irrigation benefits to an extent of 7.2 lakhs acres in the upland areas of (1) Krishna District, (2) West Godavari District (3) East Godavari District and (4) Visakhapatnam district. The IBM Value for the above work is assessed as Rs.4717 crores. The work was entrusted to M/S Transstroy- JSC-EC- UES (JV) vide Agreement No.1/2012-13, dated. 02-03-2013 for an amount of Rs.4054 crores (@ -14.0555% over IBM). The Government vide G.O.Ms.No.5, dated. 06-02-2013 accorded administrative approval for an amount of Rs.7372 crores for all the works including connectivities of Polavaram Head works.

2. Further the Government vide Memo.No. 61844/Proj.I.A2/2015, dated. 16-03-2016 accorded permission to place the updated estimate of the subject work with balance quantities recast with current SSR 2015-16 before IBM committee to conclude supplemental agreement with the agency for the contract work. As per the instructions of the Government, the updated estimate of the subject work was placed before the IBM Committee. The I.B.M value for the balance work based on S.S.R 2015-16 including work done upto 01/2016 & 04/2016 was assessed as Rs 6730.10 Crores & Rs 6689.09 Crores respectively. Applying Tender discount the same value works out to Rs 5784.15 Crores & Rs 5748.90 Crores respectively.

3. Subsequently the Government have issued orders for the cut off date for revised estimates of Balance works of Head works Main Dam package (Contract Agreement No. 1/2012-13, dated. 02-02-2013) updated with SOR 2015-16 with effect from 10-10-2015 vide G.O.Ms.No. 83, dated 6.8.2016.

4. The ENC,PIP has furnished the updated estimate of the work of Polavaram Irrigation Project Head Works for an amount of Rs 5767.83 Crores considering the cut off date as 10-10-2015 in terms of G.O.Ms.No. 83, dt. 06-08-2016 and requested for approval of Revised Estimate.

5. Government, after careful examination hereby accord revised administrative sanction to the work "Investigation, survey, preparation of designs & drawings and LP schedules etc., (balance) (1) Construction of Earth Dam Gaps I & III, Earth cum Rock fill dam for Gap-II, Spill channel, Approach channel and Pilot channel (2) Construction of

PTO

Spillway with crest level + 25.72m and its ancillary works and (3) Excavation of foundations of 960 MW Hydro Electric Power House, Approach channel, Intake structure, Tail race pool, Tail race channel etc of Polavaram Project on EPC Turn key including O&M updated estimate with SSR 2015-16" for the balance works for an amount of Rs 5535.41 Crores (Rupees Fifty five hundred thirty five Crores and forty one lakhs only) duly applying tender discount of (-14.0555) and revised sand policy of 2016 of Industries and Commerce Department, dt.4.3.2016 and considering the cut off date as 10-10-2015 in terms of G.O.Ms.No. 83, dated. 06-08-2016. A copy of the abstract estimate is enclosed as **Annexure**.

6. The Engineer-in-Chief, PIP, Dowlaiswaram shall take necessary action accordingly.

7. This order issues with the concurrence of Finance (FMU-WR II) Department vide their U.O.No.48022/366/FMU-WR.II/2016, dated 01.09.2016.

**(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)**

**SHASHI BHUSHAN KUMAR**
**SECRETARY TO GOVERNMENT**

To
The Engineer-in-Chief, PIP, Dowlaiswaram
**Copy to:**
The Pay & Accounts Office, AP, Hyderabad
The Director of Works & Accounts, Hyderabad
The Finance (FMU-WR II) Deptt.
P.S to Minister (WRD)
P.S to Secretary (WRD)
SF/SCs.

**//FORWARDED::BY ORDER//**

**SECTION OFFICER**

**Annexure to G.O.Ms. No. 96, Water Resources (Proj.I) Dept., Dated: 08-09-2016**

| Sl.No. | Description | Amount as per Revised Estimate (SSR 2015-16) (in Crores) |
|---|---|---|
| 1 | Earth cum Rock Fill Dam for length of 2454m including coffer dam | |
| a | Earth cum Rock Fill Dam for Gap-II (gg' length 1750 m) | **1027.99** |
| b | Earth Dam for Gap-I (g'd length 564 m) and its ancillary works. | **56.53** |
| c | Earth Dam for Gap-III (gb length 140 m) | **1.83** |
| d | Construction of Coffer Dams for ECRF Dam | **246.23** |
| 2 | Spill channel | **1835.14** |
| 3 | Approach Channel | **192.68** |
| 4 | Pilot Channel | **50.79** |
| 5 | Protection works including formation of groyne &protection to the Godavari left bank & Rock Fill embankment on right bank of River Godavari. | **31.66** |
| 6 | Other Items | |
| a | Investigation including preperation and approval of designs, drawings blasting pattern and estimates etc., | **5.00** |
| b | Formation of Roads and Road Diversion on approach channel, Road connecting spill way,Gap III , Gap II, road on Gap II& Gap III and Road on both banks of spill channel. | **9.04** |
| c | Land cost of spoil dump area | **79.6** |
| d | Providing safety arrangements | **2.37** |
| e | Providing lighting arrangements | **1.75** |
| f | Maintenance | **12.51** |
| i) | Add for seignorage charges for ECRF dam | **80.75** |
| ii) | Add for seignorage charges for Gap I | **5.3** |
| | **IBM Value of ECRF Dam** | **3639.17** |
| | **Sub -Work - 2** | |
| **II** | **Construction of Spillway with crest level+25.72 m and its ancillary works** | |
| 7 | Spill way including all amenities excluding work done. | **1093.37** |
| 8 | Radial Gates and Hoisting arrangements | **531.03** |
| 9 | Spill channel (200m) | **139.82** |
| 10 | Approach Channel (200m) | **66.46** |
| 11 | Diversion road. | **11.68** |
| 12 | Road bridge over spill way | **12.26** |
| 13 | Road bridge over spill Channel | **53.77** |
| 14 | Maintenance | **19.2** |
| 15 | Preparation of Designs, drawings, Estimates etc including investigation. | **12.85** |
| 16 | Electrical sub station 2 Nos of 33 KV with necessary cabling and accessories. | **5.6** |
| 17 | Provision for Instrumentation | **1.2** |
| 18 | Land cost of spoil dump area | **11.21** |
| 19 | Provision towards land scaping and beautification of spill way | **0.30** |
| 20 | Labour cess @ 1% | **19.2** |
| | Add seignorage charges for fine & coarse aggregate | **10.65** |
| | **IBM VALUE OF SPILLWAY** | **1988.62** |
| | **Sub-Work - 3** | |
| **III** | **Excavation of foundations of 960 MW Hydro Electric Power House, Approach channel, Intake structure, Tail race pool, Tail race channel** | **312.95** |

| | | |
|---|---|---|
| | **Seignorage charges on metal and sand** | **2.05** |
| | **Value of work done in Existing contract** | **294.51** |
| | **Total IBM Rs. In Crores.** | **6237.28** |
| | **Foundation Excavation & concrete for spillway considering recent bore hole data** | **53.50** |
| | **Add for C.C blocks of spill channel considering extra are over the I.B.M** | **129.45** |
| | **CM&CD works on diversion road** | **2.90** |
| | **Turfing** | **0.63** |
| | **Drilling 45 to 50mm holes for power house pit, approach channel, tail race channel** | **0.77** |
| | **Total** | **6424.53** |
| | **Seignorage charges** | **(--) 98.75** |
| | | **6325.78** |
| | **With tender discount (-14.0555% Less)** | **(--) 889.12** |
| | | **5436.66** |
| | **Seignorage charges** | **(+) 98.75** |
| | **TOTAL** | **5535.41** |

**SHASHI BHUSHAN KUMAR**
**SECRETARY TO GOVERNMENT**